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Bazaar / Ham Radio & Instruments / Software Defined Radio (SDR) / KiwiSDR Kit



Description

KiwiSDR is a software-defined radio (SDR) covering shortwave, the longwave & AM broadcast bands, various utility stations, and amateur radio transmissions, world-wide, in the spectrum from 10 kHz to 30 MHz. The KiwiSDR is a custom circuit board (cape) you connect to the BeagleBone Black computer. You simply add an antenna, power supply and network connection. The KiwiSDR is available in two versions: the cape alone and a more complete version including BBG, enclosure and GPS antenna. Both versions include software supplied on a micro-SD card.

An HTML5-capable browser and internet connection will let you listen to a public KiwiSDR anywhere in the world. Up to four people can listen simultaneously to one radio — each listener tunes independently.

Try it right now! Listen to KiwiSDR registered on the sdr.huwebsite.

Features

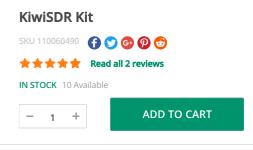
- 100% Open Source / Open Hardware.
- Browser-based interface allowing four simultaneous user web connections.
- Each connection tunes an independent receiver channel over the entire spectrum.
- Waterfall tunes independently of audio and includes zooming and panning.
- Multi-channel, parallel DDC design using bit-width optimized CIC filters.
- Good performance at VLF/LF since we personally spend time monitoring those frequencies.
- Automatic frequency calibration via received GPS timing.
- Easy hardware and software setup. Browser-based configuration interface.
- Extension interface for adding decoders and utilities.

Specification

- $\bullet~$ SDR covers the 10 kHz to 30 MHz (VLF-HF) spectrum.
- Web interface based on OpenWebRX from András Retzler, HA7ILM.
- Demodulation modes: AM, AMN, LSB, USB, CW, CWN, NBFM.
- Extensions at present: WSPR viewer/decoder, IQ display, Loran-C viewer.
- RF antenna connector: SMA and terminal block.
- Integrated software-defined GPS receiver from Andrew Holme's Homemade GPS Receiver.
- GPS receives the Navstar system on L1 frequency 1575.42 MHz.
- GPS antenna connector: SMA, 3.3V powered for active antennas.
- Voltage: +5V DC, 2.1mm jack, center pin positive.
- Current: 1.5A including Beagle, KiwiSDR powers Beagle through header connectors.
- Dimensions: KiwiSDR PCB 117mm * 55mm, SMA connectors additional.

Part List

- 1 x KiwiSDR Board
- 1 x Beaglebone Green
- 1 x Unassembled enclosure
- 1 x Skyworks SE4150L GPS front-end antenna



Description

Best-sellers

Technical Details

Reviews

Questions and Answers

View History

• 1 x Micro-SD Card

Documents

- For source code and issues list, please visit our Githubpage.
- For technical discussion, please come to our Forum.
- For projects that you would like to share with the community, please visit Recipe.

Best-sellers









Technical Details

Weight	G.W 310g
Battery	Exclude

Part List

KiwiSDR Board	1
Beaglebone Green	1
Unassembled enclosure	1
Skyworks SE4150L GPS front-end antenna	1
Micro-SD Card	1

Reviews



Hard to get the nylon standoffs and nuts attached to the BBG. Tedious!

Jan 31,2017 by Lill.James United States

Was this review helpful? 🖒 0





Smooth transaction - as always. Thanks.

Jan 24,2017 by Per-Tore Aasestrand Norway

Was this review helpful? 0



Questions and Answers

Have a question about this? Ask people who own it.



Is a power supply required for simple HF listening, or is the voltage from the usb enough? Also, I/O can be through ethernet or USB, correct?

dan.barr on Jun 05,2017

Reply |

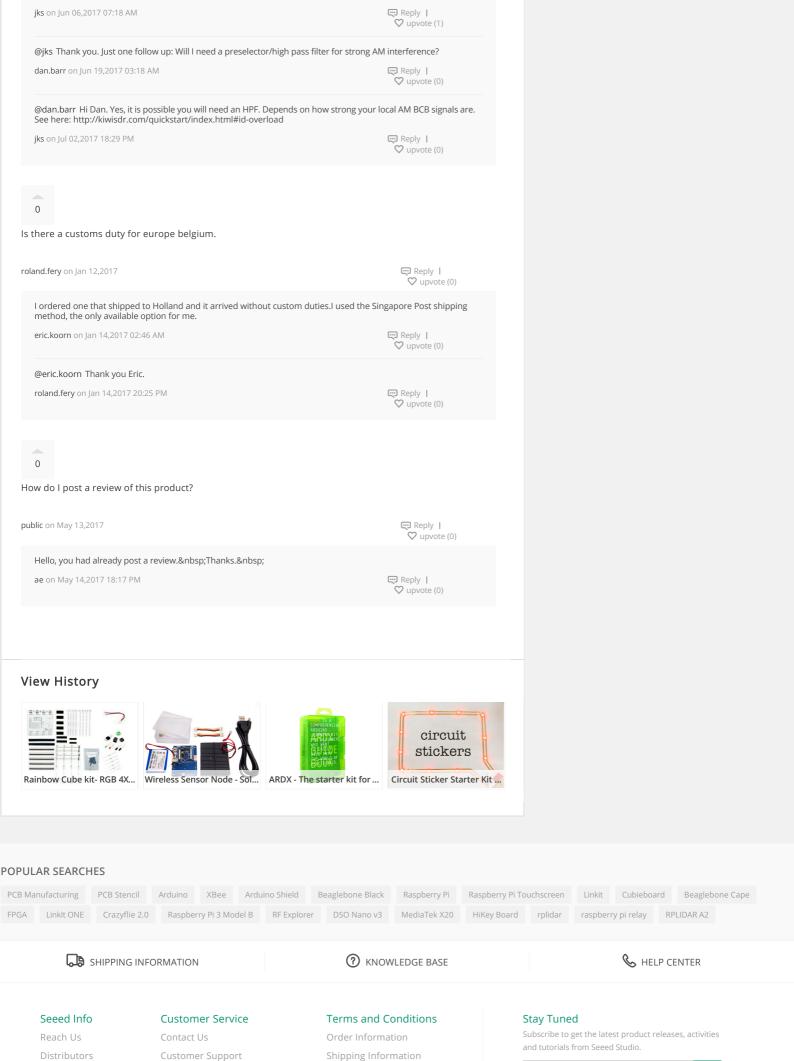
I take back the part about I/O through USB. Just the question about the power supply. Thanks.

dan.barr on Jun 05,2017 02:35 AM

Reply |

v upvote (0)

@dan.barr Hi Dan. Power has to be applied to the Kiwi's round (2.1/5.5 mm) DC jack. 5V @ 1.5 to 2A. USB power on $the BBG \ can't \ handle \ the \ current \ (it \ won't \ even \ power-up). \ See \ here: \ http://kiwisdr.com/quickstart/index.html\#id-line \ power-up).$



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